

## ***Aedes albopictus* Peak Activity Times – Jay Kiser**

- a. Important info for mosquito control
  - i. Different species have different peak activity times
  - ii. Control is more effective if mosquitoes are out and active
- b. Mosquito monitoring
  - i. BG counter
    - 1. Remote monitoring
    - 2. Data accessible by computer
    - 3. Used CO<sub>2</sub> and BG lure
  - ii. 2016 study
    - 1. Downtown area
    - 2. Focus on albos
    - 3. Twice a week
    - 4. June-Sept
    - 5. 24 hour trapping
    - 6. 29 trap nights
    - 7. Counter was 95% accurate
    - 8. 91% were albos
  - iii. Results
    - 1. There is an artificial peak due to introducing the trap
    - 2. Peaks
      - a. 5:30 pm – 2 hours before sunset
      - b. Smaller peak before sunrise
- c. Landing rate counts
  - i. 5 minutes
  - ii. 7:30-8:00 am
  - iii. Near trap and away from trap
  - iv. Results
    - 1. Lots of males
    - 2. Mating pairs
- d. What was the distribution of males to females at different times?
  - i. Modified rotator trap
  - ii. Used with BG trap
  - iii. Aug-Sept
  - iv. 1 hour chambers
  - v. 11 trap nights
  - vi. Results
    - 1. Males peaked at around 5 pm
    - 2. Females were constant
- e. Conclusions
  - i. Peak activity was about 2 hours 2-3 hours before sunset
  - ii. Peak may be driven by males, not females
  - iii. Needs further study

